Title (en)

METHOD AND APPARATUS FOR VIDEO CODING

Title (de)

VERFAHREN UND VORRICHTUNG ZUR VIDEOCODIERUNG

Title (fr)

PROCÉDÉ ET APPAREIL DE VIDÉOCODAGE

Publication

EP 4070237 A1 20221012 (EN)

Application

EP 21907389 A 20210924

Priority

- US 202063126194 P 20201216
- US 202117447525 A 20210913
- US 2021052076 W 20210924

Abstract (en)

[origin: US2022191553A1] Aspects of the disclosure provide methods and apparatuses for neural network processing, such as in video processing. In some examples, an apparatus for neural network processing includes processing circuitry. The processing circuitry determines that an input for a convolution operation includes a first input channel that is piecewise constant. Then, the processing circuitry calculates a first intermediate output channel based on other channels of the input for the convolution operation; and then generates an output of the convolution operation based on a combination (e.g., a linear combination) of the first intermediate output channel and the first input channel.

IPC 8 full level

G06K 9/00 (2022.01)

CPC (source: EP KR US)

G06N 3/0464 (2023.01 - EP); **G06N 3/08** (2013.01 - KR); **G06N 20/10** (2018.12 - KR); **G06T 9/002** (2013.01 - KR); **H04N 19/124** (2014.11 - KR US); **H04N 19/127** (2014.11 - US); **H04N 19/176** (2014.11 - KR); **H04N 19/186** (2014.11 - KR US); **H04N 19/395** (2014.11 - US); **H04N 19/436** (2014.11 - US); **H04N 19/635** (2014.11 - EP US); **H04N 19/82** (2014.11 - EP KR US); **H04N 19/86** (2014.11 - EP KR US); G06T 2207/20084 (2013.01 - KR)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

US 11483591 B2 20221025; **US 2022191553 A1 20220616**; CN 115428461 A 20221202; EP 4070237 A1 20221012; EP 4070237 A4 20230621; JP 2023521556 A 20230525; JP 7449402 B2 20240313; KR 102647645 B1 20240315; KR 20220123102 A 20220905; WO 2022132277 A1 20220623

DOCDB simple family (application)

US 202117447525 A 20210913; CN 202180018266 A 20210924; EP 21907389 A 20210924; JP 2022554442 A 20210924; KR 20227026644 A 20210924; US 2021052076 W 20210924